

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	215	359/34.ccls.	US-PGPUB; USPAT	OR	OFF	2009/09/10 07:57
S1	7	US-6553242-\$.DID. OR US-6533729-\$.DID. OR US-6183422-\$.DID. OR US-5853372-\$.DID. OR US-5810736-\$.DID. OR US-5807267-\$.DID. OR US-5795300-\$.DID.	US-PGPUB; USPAT	OR	OFF	2009/08/26 16:59
S2	8	US-6553242-\$.DID. OR US-6533729-\$.DID. OR US-6183422-\$.DID. OR US-5853372-\$.DID. OR US-5810736-\$.DID. OR US-5807267-\$.DID. OR US-5795300-\$.DID. OR US-5650945-\$.DID.	US-PGPUB; USPAT	OR	OFF	2009/08/26 17:00
S3	1063	600/500.ccls.	US-PGPUB; USPAT	OR	OFF	2009/08/28 16:42
S4	241	600/503.ccls.	US-PGPUB; USPAT	OR	OFF	2009/08/28 16:42
S5	4662029	@ad<="20040217"	US-PGPUB; USPAT	OR	OFF	2009/08/28 16:43
S6	191	S4 and S5	US-PGPUB; USPAT	OR	OFF	2009/08/28 16:43
S7	735	S3 and S5	US-PGPUB; USPAT	OR	OFF	2009/08/28 16:43
S8	3	S6 and waveguide	US-PGPUB; USPAT	OR	OFF	2009/08/28 16:47
S9	2	S6 and (optical near coupling)	US-PGPUB; USPAT	OR	OFF	2009/08/28 16:47
S10	21	S6 and annular	US-PGPUB; USPAT	OR	OFF	2009/08/28 16:47
S11	5	((JOSEPH) near2 (FLORIAN)). INV.	US-PGPUB; USPAT	OR	OFF	2009/08/30 08:49
S13	1063	600/500.ccls.	US-PGPUB; USPAT	OR	OFF	2009/08/30 09:49
S14	241	600/503.ccls.	US-PGPUB; USPAT	OR	OFF	2009/08/30 09:49
S15	4662029	@ad<="20040217"	US-PGPUB; USPAT	OR	OFF	2009/08/30 09:49
S16	191	S14 and S15	US-PGPUB; USPAT	OR	OFF	2009/08/30 09:49

S17	735	S13 and S15	US-PGPUB; USPAT	OR	OFF	2009/08/30 09:49
S18	74	S16 and S17	US-PGPUB; USPAT	OR	OFF	2009/08/30 09:49
S19	852	S16 or S17	US-PGPUB; USPAT	OR	OFF	2009/08/30 09:50
S20	10	S19 and (optical with coupling)	US-PGPUB; USPAT	OR	OFF	2009/08/30 09:50
S21	25125	(optical near coupling)	US-PGPUB; USPAT	OR	OFF	2009/08/30 09:54
S22	717	S21 same (pulse or heartrate or heartbeat or (heart near (rate or beat)))	US-PGPUB; USPAT	OR	OFF	2009/08/30 09:56
S23	1280	lightwheel or (light near wheel)	US-PGPUB; USPAT	OR	OFF	2009/08/30 10:06
S24	61	S23 same (pulse or heartrate or heartbeat or (heart near (rate or beat)))	US-PGPUB; USPAT	OR	OFF	2009/08/30 10:07
S25	44	S24 and S15	US-PGPUB; USPAT	OR	OFF	2009/08/30 10:10
S26	4518	(radial or brachial) near arter \$	US-PGPUB; USPAT	OR	OFF	2009/08/30 10:22
S27	159	S26 same optic\$	US-PGPUB; USPAT	OR	OFF	2009/08/30 10:23
S28	118	thin-disk	US-PGPUB; USPAT	OR	OFF	2009/08/30 10:25
S32	1	"4830014".pn.	US-PGPUB; USPAT	OR	OFF	2009/08/31 09:29
S33	1	"5984874".pn.	US-PGPUB; USPAT	OR	OFF	2009/08/31 09:29
S34	1436	600/500-503.ccls.	US-PGPUB; USPAT	OR	OFF	2009/08/31 09:37
S35	4662029	@ad<="20040217"	US-PGPUB; USPAT	OR	OFF	2009/08/31 09:38
S36	967	S35 and S34	US-PGPUB; USPAT	OR	OFF	2009/08/31 09:38
S39	0	"359".ccls.	US-PGPUB; USPAT	OR	OFF	2009/09/02 08:13
S40	101540	"359".clas.	US-PGPUB; USPAT	OR	OFF	2009/09/02 08:13
S41	246	S40 and waveguide near array	US-PGPUB; USPAT	OR	OFF	2009/09/02 08:14
S42	3280	S40 and optic\$ near coupling	US-PGPUB; USPAT	OR	OFF	2009/09/02 08:14
S43	3210	S40 and (grat\$ same (circ\$ or radial))	US-PGPUB; USPAT	OR	OFF	2009/09/02 08:16
S44	19	S41 and S42 and S43	US-PGPUB; USPAT	OR	OFF	2009/09/02 08:17

S45	339	S42 and S43	US-PGPUB; USPAT	OR	OFF	2009/09/02 08:32
S46	4662463	@ad<="20040217"	US-PGPUB; USPAT	OR	OFF	2009/09/02 08:32
S47	244	S45 and S46	US-PGPUB; USPAT	OR	OFF	2009/09/02 08:32
S48	1256	S40 and (grat\$ same (circle or circular or radial))	US-PGPUB; USPAT	OR	OFF	2009/09/02 08:33
S49	78	S48 and S42	US-PGPUB; USPAT	OR	OFF	2009/09/02 08:33
S50	49	S49 and S46	US-PGPUB; USPAT	OR	OFF	2009/09/02 08:33
S51	59492	S40 and S46	US-PGPUB; USPAT	OR	OFF	2009/09/02 08:42
S52	7455	S51 and (heartrate or heartbeat or (heart near (beat or rate) or pulse))	US-PGPUB; USPAT	OR	OFF	2009/09/02 08:48
S53	497	S52 and S42	US-PGPUB; USPAT	OR	OFF	2009/09/02 08:49
S54	11	S53 and S48	US-PGPUB; USPAT	OR	OFF	2009/09/02 08:49
S55	28	S51 and (heartrate or heartbeat or (heart near (beat or rate)))	US-PGPUB; USPAT	OR	OFF	2009/09/02 08:50
S56	7244	S51 and hologra\$	US-PGPUB; USPAT	OR	OFF	2009/09/02 08:55
S57	474	S56 and S48	US-PGPUB; USPAT	OR	OFF	2009/09/02 08:56
S58	75	S57 and waveguide	US-PGPUB; USPAT	OR	OFF	2009/09/02 08:56
S59	101540	"359".clas.	US-PGPUB; USPAT	OR	OFF	2009/09/02 12:36
S60	4662463	@ad<="20040217"	US-PGPUB; USPAT	OR	OFF	2009/09/02 12:36
S61	59492	S59 and S60	US-PGPUB; USPAT	OR	OFF	2009/09/02 12:36
S62	192	S61 and waveguide near array	US-PGPUB; USPAT	OR	OFF	2009/09/02 12:36
S63	37	S61 and ((disk or round\$ or circular or circle) with (optical near coupling))	US-PGPUB; USPAT	OR	OFF	2009/09/02 12:38
S64	1711	S61 and (aperture with (planar or annular or ring))	US-PGPUB; USPAT	OR	OFF	2009/09/02 12:39
S65	190	S61 and (waveguide with (pie or wedge or circular or circle))	US-PGPUB; USPAT	OR	OFF	2009/09/02 12:41
S66	46693	illuminat\$ near source	US-PGPUB; USPAT	OR	OFF	2009/09/02 13:03

S67	31494	S66 and (LED or (light near emit\$) or IR or infrared)	US-PGPUB; USPAT	OR	OFF	2009/09/02 13:05
S68	1091926	LED or (light near emit\$) or IR or infrared	US-PGPUB; USPAT	OR	OFF	2009/09/02 13:05
S69	1107125	S66 or S68	US-PGPUB; USPAT	OR	OFF	2009/09/02 13:05
S70	74476	optic\$ near coupl\$	US-PGPUB; USPAT	OR	OFF	2009/09/02 13:06
S71	60979	photodetector	US-PGPUB; USPAT	OR	OFF	2009/09/02 13:06
S72	7585	S69 and S70 and S71	US-PGPUB; USPAT	OR	OFF	2009/09/02 13:07
S73	355	(optic\$ near coupl\$) same concentric	US-PGPUB; USPAT	OR	OFF	2009/09/02 13:08
S74	2375	photodetector same density	US-PGPUB; USPAT	OR	OFF	2009/09/02 13:08
S75	261	S69 S70 S74	US-PGPUB; USPAT	AND	OFF	2009/09/02 13:09
S76	192	S75 and S60	US-PGPUB; USPAT	AND	OFF	2009/09/02 13:11
S77	5272	S72 and S60	US-PGPUB; USPAT	OR	OFF	2009/09/02 13:11
S78	381	S77 and concentric	US-PGPUB; USPAT	OR	OFF	2009/09/02 13:53
S79	241	600/503.ccls.	US-PGPUB; USPAT	OR	OFF	2009/09/02 14:03
S80	1273109	S79 optical	US-PGPUB; USPAT	OR	OFF	2009/09/02 14:03
S81	79	S79 and optical	US-PGPUB; USPAT	OR	OFF	2009/09/02 14:03
S82	564422	(optic\$ near coupl\$) gain	US-PGPUB; USPAT	OR	OFF	2009/09/03 08:40
S83	4264	(optic\$ near coupl\$) same gain	US-PGPUB; USPAT	OR	OFF	2009/09/03 08:40
S84	4662479	@ad<="20040217"	US-PGPUB; USPAT	OR	OFF	2009/09/03 08:40
S85	3028	S83 and S84	US-PGPUB; USPAT	OR	OFF	2009/09/03 08:40
S86	1292	S85 and (photodetector or detector)	US-PGPUB; USPAT	OR	OFF	2009/09/03 08:41
S87	10389	(optic\$ near coupl\$) same (intensity or intensify or intensified or magnify or magnified or gain)	US-PGPUB; USPAT	OR	OFF	2009/09/03 08:56
S88	7018	S84 and S87	US-PGPUB; USPAT	OR	OFF	2009/09/03 08:56
S89	3691	S88 and (photodetector or detector)	US-PGPUB; USPAT	OR	OFF	2009/09/03 08:56

S90	79324	"600".clas.	US-PGPUB; USPAT	OR	OFF	2009/09/03 08:57
S91	175	S89 and S90	US-PGPUB; USPAT	OR	OFF	2009/09/03 08:57
S92	6779	(optic\$ near coupl\$) same (intensity or intensify or intensified or magnify or magnified)	US-PGPUB; USPAT	OR	OFF	2009/09/03 08:59
S93	4464	S84 and S92	US-PGPUB; USPAT	OR	OFF	2009/09/03 08:59
S94	2669	S89 and S93	US-PGPUB; USPAT	OR	OFF	2009/09/03 08:59
S95	2669	S93 and (photodetector or detector)	US-PGPUB; USPAT	OR	OFF	2009/09/03 09:00
S96	41	S95 not intensity	US-PGPUB; USPAT	OR	OFF	2009/09/03 09:11
S97	418	(optic\$ near coupl\$) same (intensify or intensified or magnify or magnified)	US-PGPUB; USPAT	OR	OFF	2009/09/03 09:11
S98	283	S84 and S97	US-PGPUB; USPAT	OR	OFF	2009/09/03 09:11
S99	168	S98 and (photodetector or detector)	US-PGPUB; USPAT	OR	OFF	2009/09/03 09:12
S100	11	S90 and (waveguide same array same density)	US-PGPUB; USPAT	OR	OFF	2009/09/03 09:18
S101	22	(US-20020188210-\$ or US- 20080097221-\$ or US- 20020138009-\$ or US- 20090187234-\$ or US- 20040220483-\$ or US- 20090088680-\$ or US- 20090093375-\$).did. or (US- 5807267-\$ or US-5853372-\$ or US-5810736-\$ or US- 5984874-\$ or US-7245803-\$ or US-5949557-\$ or US- 6456760-\$ or US-6128134-\$ or US-7016717-\$ or US- 6549795-\$ or US-7018338-\$ or US-6811535-\$ or US- 6605045-\$ or US-4224948-\$ or US-6979292-\$).did.	US-PGPUB; USPAT	OR	OFF	2009/09/03 09:40
S102	16	S101 and (detector or photodetector)	US-PGPUB; USPAT	OR	OFF	2009/09/03 09:40
S103	2817	optic\$ near (condenser or collector)	US-PGPUB; USPAT	OR	OFF	2009/09/03 11:20
S104	68	S90 and S103	US-PGPUB; USPAT	OR	OFF	2009/09/03 11:20
S105	101608	"359".clas.	US-PGPUB; USPAT	OR	OFF	2009/09/03 11:21

S106	543	S103 and S105	US-PGPUB; USPAT	OR	OFF	2009/09/03 11:21
S107	1	"6711426".pn.	US-PGPUB; USPAT	OR	OFF	2009/09/03 11:24
S108	597	S103 same aperture	US-PGPUB; USPAT	OR	OFF	2009/09/03 11:31
S109	27048	S105 and aperture	US-PGPUB; USPAT	OR	OFF	2009/09/03 13:24
S110	1732	S103 and S84	US-PGPUB; USPAT	OR	OFF	2009/09/03 13:25
S111	59492	S105 and S84	US-PGPUB; USPAT	OR	OFF	2009/09/03 13:25
S112	18495	S111 and aperture	US-PGPUB; USPAT	OR	OFF	2009/09/03 13:25
S113	192	S111 and (waveguide near array)	US-PGPUB; USPAT	OR	OFF	2009/09/03 13:26
S114	50	S112 and S113	US-PGPUB; USPAT	OR	OFF	2009/09/03 13:26
S115	5	S111 and ((waveguide near array) same (radial or circular or annular or concentric))	US-PGPUB; USPAT	OR	OFF	2009/09/03 13:36
S116	1831	S111 and ((waveguide array) same (radial or circular or annular or concentric))	US-PGPUB; USPAT	OR	OFF	2009/09/03 13:38
S117	1065	S111 and ((waveguide array) with (radial or circular or annular or concentric))	US-PGPUB; USPAT	OR	OFF	2009/09/03 13:39
S118	579	S117 and aperture	US-PGPUB; USPAT	OR	OFF	2009/09/03 13:39
S119	2594	S111 and ((waveguide array) with (planar or radial or circular or annular or concentric))	US-PGPUB; USPAT	OR	OFF	2009/09/03 13:43
S120	1076	S119 and aperture	US-PGPUB; USPAT	OR	OFF	2009/09/03 13:44
S121	921	S111 and (waveguide with (planar or radial or circular or annular or concentric))	US-PGPUB; USPAT	OR	OFF	2009/09/03 13:47
S122	218	S121 and aperture	US-PGPUB; USPAT	OR	OFF	2009/09/03 13:50
S123	11200	light near pipe	US-PGPUB; USPAT	OR	OFF	2009/09/03 15:32
S124	11599	(light near pipe) or lightpipe	US-PGPUB; USPAT	OR	OFF	2009/09/03 15:32
S125	526	S90 and S105	US-PGPUB; USPAT	OR	OFF	2009/09/03 15:33
S126	180406	S90 S105	US-PGPUB; USPAT	OR	OFF	2009/09/03 15:33

S127	4731946	S126 S84	US-PGPUB; USPAT	OR	OFF	2009/09/03 15:33
S128	110939	S126 and S84	US-PGPUB; USPAT	OR	OFF	2009/09/03 15:33
S129	972	S124 and S128	US-PGPUB; USPAT	OR	OFF	2009/09/03 15:34
S130	912	S129 and optic\$	US-PGPUB; USPAT	OR	OFF	2009/09/03 15:34
S131	100	S130 and (aperture same (circular or radial or concentric))	US-PGPUB; USPAT	OR	OFF	2009/09/03 15:40
S132	37	(US-20020188210-\$ or US- 20080097221-\$ or US- 20020138009-\$ or US- 20090187234-\$ or US- 20040220483-\$ or US- 20090088680-\$ or US- 20090093375-\$ or US- 20040136071-\$ or US- 20060007568-\$ or US- 20060268392-\$ or US- 20040017602-\$ or US- 20040092802-\$).did. or (US- 5807267-\$ or US-5853372-\$ or US-5810736-\$ or US- 5984874-\$ or US-7245803-\$ or US-5949557-\$ or US- 6456760-\$ or US-6128134-\$ or US-7016717-\$ or US- 6549795-\$ or US-7018338-\$ or US-6811535-\$ or US- 6605045-\$ or US-4224948-\$ or US-6979292-\$ or US- 6711426-\$ or US-6654630-\$ or US-6636753-\$ or US- 6370406-\$ or US-6869881-\$ or US-6860650-\$ or US- 6614574-\$ or US-6477301-\$ or US-5157543-\$ or US- 6966661-\$).did.	US-PGPUB; USPAT	OR	OFF	2009/09/03 16:20
S133	5	S132 and aperture and prism and waveguide	US-PGPUB; USPAT	OR	OFF	2009/09/03 16:21
S134	14805	aperture near ratio	US-PGPUB; USPAT	OR	OFF	2009/09/08 09:43
S135	43	"600".clas. and S134	US-PGPUB; USPAT	OR	OFF	2009/09/08 09:44
S136	4662886	@ad<="20040217"	US-PGPUB; USPAT	OR	OFF	2009/09/08 09:44
S137	30	S136 and S135	US-PGPUB; USPAT	OR	OFF	2009/09/08 09:44
S138	2138	condens\$ same aperture same area	US-PGPUB; USPAT	OR	OFF	2009/09/08 09:58

S139	89	condens\$ same aperture same area same entrance	US-PGPUB; USPAT	OR	OFF	2009/09/08 09:58
S140	1458	S138 and S136	US-PGPUB; USPAT	OR	OFF	2009/09/08 09:58
S141	61	S139 and S136	US-PGPUB; USPAT	OR	OFF	2009/09/08 09:58
S142	1	S140 and S135	US-PGPUB; USPAT	OR	OFF	2009/09/08 09:58
S143	79356	"600".clas.	US-PGPUB; USPAT	OR	OFF	2009/09/08 09:59
S144	20	S140 and S143	US-PGPUB; USPAT	OR	OFF	2009/09/08 09:59
S145	3	S141 and S143	US-PGPUB; USPAT	OR	OFF	2009/09/08 09:59
S146	0	S140 and "10359".clas.	US-PGPUB; USPAT	OR	OFF	2009/09/08 10:29
S147	101674	"359".clas.	US-PGPUB; USPAT	OR	OFF	2009/09/08 10:29
S148	233	S147 and S140	US-PGPUB; USPAT	OR	OFF	2009/09/08 10:29
S149	23	S147 and S141	US-PGPUB; USPAT	OR	OFF	2009/09/08 10:29
S150	51350	"385".clas.	US-PGPUB; USPAT	OR	OFF	2009/09/08 13:27
S151	37038	S136 and S150	US-PGPUB; USPAT	OR	OFF	2009/09/08 13:27
S152	14	S138 and S151	US-PGPUB; USPAT	OR	OFF	2009/09/08 13:27
S153	190	(waveguide near array) same (radial or radius or concentric or circular)	US-PGPUB; USPAT	OR	OFF	2009/09/08 13:38
S154	59	S151 and S153	US-PGPUB; USPAT	OR	OFF	2009/09/08 13:38
S155	131	S153 not S154	US-PGPUB; USPAT	OR	OFF	2009/09/08 13:51
S156	1504	385/130.ccls.	US-PGPUB; USPAT	OR	OFF	2009/09/08 14:00
S157	337	385/9.ccls.	US-PGPUB; USPAT	OR	OFF	2009/09/08 14:00
S158	361	385/19.ccls.	US-PGPUB; USPAT	OR	OFF	2009/09/08 14:00
S159	2150	385/39.ccls.	US-PGPUB; USPAT	OR	OFF	2009/09/08 14:00
S160	1156	385/127.ccls.	US-PGPUB; USPAT	OR	OFF	2009/09/08 14:00
S161	5280	S156 S157 S158 S159 S160	US-PGPUB; USPAT	OR	OFF	2009/09/08 14:01



S162	291	aperture same waveguide same (optical near coupl\$)	US-PGPUB; USPAT	OR	OFF	2009/09/08 14:02
S163	1048	385/115.ccls.	US-PGPUB; USPAT	OR	OFF	2009/09/09 10:46
S164	683	385/116.ccls.	US-PGPUB; USPAT	OR	OFF	2009/09/09 10:46
S165	546	385/120.ccls.	US-PGPUB; USPAT	OR	OFF	2009/09/09 10:46
S166	2721	385/129.ccls.	US-PGPUB; USPAT	OR	OFF	2009/09/09 10:47
S167	1504	385/130.ccls.	US-PGPUB; USPAT	OR	OFF	2009/09/09 10:47
S168	3918	385/37.ccls.	US-PGPUB; USPAT	OR	OFF	2009/09/09 10:47
S169	4662886	@ad<="20040217"	US-PGPUB; USPAT	OR	OFF	2009/09/09 10:47
S170	749	S169 and S163	US-PGPUB; USPAT	OR	OFF	2009/09/09 10:48
S171	492	S169 and S164	US-PGPUB; USPAT	OR	OFF	2009/09/09 10:48
S172	395	S169 and S165	US-PGPUB; USPAT	OR	OFF	2009/09/09 10:48
S173	1652	S169 and S166	US-PGPUB; USPAT	OR	OFF	2009/09/09 10:48
S174	1076	S169 and S167	US-PGPUB; USPAT	OR	OFF	2009/09/09 10:48
S175	3008	S169 and S168	US-PGPUB; USPAT	OR	OFF	2009/09/09 10:48
S177	1	"6894828".pn.	US-PGPUB; USPAT	OR	OFF	2009/09/09 10:50
S178	5829	S171 S172 S173 S174 S175	US-PGPUB; USPAT	OR	OFF	2009/09/09 11:02
S179	26	S178 and ((waveguide near array) same (circular or radial \$ or concentric or inward))	US-PGPUB; USPAT	OR	OFF	2009/09/09 11:03
S180	51350	"385".clas.	US-PGPUB; USPAT	OR	OFF	2009/09/09 11:09
S181	53	S180 and ((waveguide near array) same (circular or radial \$ or concentric or inward))	US-PGPUB; USPAT	OR	OFF	2009/09/09 11:09
S182	27	S181 not S179	US-PGPUB; USPAT	OR	OFF	2009/09/09 11:09
S183	4225	S180 and (grat\$ same (circ\$ or radial\$))	US-PGPUB; USPAT	OR	OFF	2009/09/09 11:14
S184	635	S183 and waveguide and aperture	US-PGPUB; USPAT	OR	OFF	2009/09/09 11:16

S185	50	S180 and (thin-disk or thin-disc or (thin near (disc or disk)))	US-PGPUB; USPAT	OR	OFF	2009/09/09 11:23
S186	329	S178 and ((total near internal near reflect\$) same waveguide)	US-PGPUB; USPAT	OR	OFF	2009/09/09 12:38
S187	329	S169 and S186	US-PGPUB; USPAT	OR	OFF	2009/09/09 12:38
S188	47	pelouch.in.	US-PGPUB; USPAT	OR	OFF	2009/09/09 15:34
S189	355	power near scalable	US-PGPUB; USPAT	OR	OFF	2009/09/09 15:34
S190	5	S188 and S189	US-PGPUB; USPAT	OR	OFF	2009/09/09 15:34

**9/ 10/ 2009 8:31:17 AM**

**C:\ Documents and Settings\ dhuntley\ My Documents\ EAST\ Workspaces\ 10780813a.wsp**